

Hammer CL Plus[®]



Clearfield Plus
Production System for Wheat

Variety snapshot

- Closely related to widely adapted variety Mace^Φ, with similar adaptation and yield
- AH quality classification with moderate screenings and high test weight
- Suitable for wheat-on-wheat situations
- Quick-mid maturity
- Tolerant to Clearfield[®] Intervix[®] herbicide

Breeder's comments

Being very closely related to Mace[®], Hammer CL Plus[®] shares a similar maturity and sowing window, as well as a wide adaptation and suitability to most cropping regions.

Along with having an AH quality classification in southern NSW, Hammer CL Plus[®] produces grain with moderate screenings losses and high test weights.

Hammer CL Plus[®] also offers one of the best disease resistance packages in a Clearfield[®] variety, and with good levels of resistance to both CCN and yellow leaf spot, lends itself to wheat-on-wheat situations.

Hammer CL Plus[®] has finer, and therefore weaker straw than Mace[®], so growers may observe some leaning or lodging when Hammer CL Plus[®] is grown in higher yielding situations.

Clearfield[®] System

Hammer CL Plus[®] has been specifically developed to carry two genes for tolerance to Clearfield[®] Intervix[®] herbicide. Intervix[®] is a member of the imidazolinone chemical family with Group 2 (formerly Group B) mode of action, offering one-pass post-emergent knockdown and residual control of many major grass and broadleaf weeds. Intervix[®] herbicide is available via the Clearfield[®] Agricentre Agency system, administered by BASF.

For more information visit crop-solutions.basf.com.au/products/intervix or Toll Free 1800 558 399.

Hammer CL Plus[Ⓛ]

Table 1. Specifications

Background

Tested as	OAGT0016
Released	2020
EPR rate	\$4.25/tonne + GST

Disease

Stem Rust resistance*	MR
Stripe Rust resistance*	MS
Leaf Rust resistance*	S
Yellow Leaf Spot resistance*	MRMS
Powdery Mildew resistance*	S
Septoria Tritici Blotch resistance*	MSS
CCN resistance*	MRMS
Pratylenchus Neglectus resistance*	MSS
Pratylenchus Neglectus tolerance*	MTMI
Pratylenchus Thornei resistance*	S
Pratylenchus Thornei tolerance*	I
Crown Rot resistance*	MSS

Plant Characteristics

Maturity speed [^]	Quick-mid
Maturity habit [^]	Spring
Sowing window [^]	Main & Late
Novel herbicide tolerance [^]	Clearfield® Plus (Intervix® herbicide)
Head type [^]	Awned
Plant height [^]	Moderate
Coleoptile length [^]	Short
Lodging tolerance [^]	MII

Abiotic Stress

Boron tolerance [^]	Does not carry tolerance gene
Acid/aluminium tolerance [^]	Carries tolerance gene

Grain Quality

Quality classification	AH
Grain colour	White
Screenings level [^]	Moderate
Test weight [^]	High
Sprouting tolerance ^{^∘}	MII
Black Point resistance*	MRMS

Legend

R	Resistant	VI	Very Intolerant	∘	Rating based on Germination Index Values
MR	Moderately Resistant	(P)	Provisional rating	^	AGT ratings/data interpretation. Comprehensive AGT agronomic trait ratings and data can be found at: https://bit.ly/TraitRatings
MS	Moderately Susceptible	NA	Not Available		
S	Susceptible	/	Pathotype differences		
VS	Very Susceptible	-	Range		
T	Tolerant	,	Mixed phenotype		
MT	Moderately Tolerant	#	May be more susceptible to alternate pathotypes		
MI	Moderately Intolerant	*	NVT consensus ratings 2025		
I	Intolerant				

Variety comparisons

Shotgun[®] offers an agronomic package very similar to Scepter[®], but with slightly better stripe rust, powdery mildew and CCN resistance.

Shotgun[®] has an AH quality classification and produces grain with acceptable test weight and screenings levels.

Table 2. Variety comparisons

	Shotgun [®]	Beckom [®]	Ironbark [®]	Scepter [®]	Sunmaster [®]	
Disease	Stem Rust resistance*	MRMS	MRMS	MS	MRMS	MS
	Stripe Rust resistance*	MSS	MRMS	MR	S	MRMS
	Leaf Rust resistance*	MSS	MSS	MRMS	MSS	RMR
	Yellow Leaf Spot resistance*	MRMS	MSS	MSS	MRMS	MSS
	Powdery Mildew resistance*	S	S	S	SVS	S
	Septoria Tritici Blotch resistance*	S (P)	S	S	S	S
	CCN resistance*	R (P)	R	MS (P)	MRMS	MSS
	Pratylenchus Neglectus resistance*	MS (P)	S	S	S	MRMS
	Pratylenchus Neglectus tolerance*	MI (P)	MTMI	IVI (P)	MTMI	MTMI
	Pratylenchus Thornei resistance*	MRMS	MSS	MR (P)	MSS	MS
	Pratylenchus Thornei tolerance*	TMT (P)	TMT	MTMI (P)	MT	TMT
	Crown Rot resistance*	MS (P)	S	MSS (P)	MSS	MSS
	Plant Characteristics	Maturity speed^	Quick-mid	Quick-mid	Mid	Mid
Maturity habit^		Spring	Spring	Spring	Spring	Spring
Sowing window^		Main & Late	Main & Late	Main & Late	Main & Late	Main & Late
Novel herbicide tolerance^		None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)	None (conventional tolerance)
Head type^		Awned	Awned	Awned	Awned	Awned
Plant height^		Moderately short	Short to moderately short	Moderately short	Moderate	Moderate
Coleoptile length^		Short	Short	Short	Short	Moderate
Lodging tolerance^		MTMI	MI	MI	MI	MTMI
Abiotic Stress	Boron tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
	Acid/aluminium tolerance^	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Carries tolerance gene	Does not carry tolerance gene
Grain Quality	Quality classification	AH	AH	AH	AH	APH
	Grain colour	White	White	White	White	White
	Screenings level^	Low	Moderate	Low	Low	Low
	Test weight^	Moderate	Moderate	High	High	Very high
	Sprouting tolerance^°	MII	MII	MII	MII	I
	Black Point resistance*	S (P)	MRMS	NA	MS	MR



Seed Availability

Please contact an AGT Affiliate or your local retailer for seed. Consult the AGT website for AGT Affiliate contact details (www.agtbreeding.com.au/affiliates). AGT varieties can be traded between growers upon the completion of a License Agreement as part of AGT's Seed Sharing™ initiative (www.agtbreeding.com.au/seedsharing)

PBR and EPR

Varieties denoted by the [®] symbol are protected by Plant Breeders Rights (PBR) and all production (except seed saved for planting) is liable to an End Point Royalty (EPR), which funds future plant breeding. Growers of PBR protected varieties will be subject to a Grower License Agreement that acknowledges that an EPR must be paid on all production other than seed saved for planting.

Contact

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agtbreeding.com.au

The information contained in this brochure is based on knowledge and understanding at the time of writing. Growers should be aware of the need to regularly consult with their advisors on local conditions and currency of information. Wherever possible, independent NVT data has been used in this publication. In the absence of NVT data, AGT data has been provided.